

AMENDMENTS TO THE CLAIMS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Previously Presented) An infrared oven, comprising:

an oven housing;

an oven chamber adapted for receiving a food, the oven chamber located within the oven housing;

at least one first infrared heater comprising an electrically conductive filament inside of a chemically etched quartz glass tube, the at least one first infrared heater being located inside of the oven chamber and positioned to be on one side of the food; and

at least one second infrared heater comprising an electrically conductive filament inside of a chemically etched quartz glass tube, the at least one second infrared heater being located inside of the oven chamber and positioned to be on another side of the food;

wherein the at least one first and the at least one second infrared heaters emit radiant heat at infrared wavelengths from about 1 to 3 microns for cooking the food.

2. (Previously Presented) The infrared oven of claim 1, further comprising:

a first radiant heat reflector located between an inside wall of the oven chamber and the at least one first infrared heater; and

a second radiant heat reflector located between another inside wall of the oven chamber and the at least one second infrared heater;

wherein the first and the second radiant heat reflectors reflect radiant heat from the at least one first infrared heater and the at least one second infrared heater, respectively, to the food.

3-5 (Canceled)

6. (Previously Presented) The infrared oven of claim 1, wherein the food is located between the at least one first and the at least one second infrared heaters.

7-21 (Canceled)

22. (Original) The infrared oven of claim 1, wherein the infrared wavelength is from about 1.5 to about 2.5 microns.

23. (Original) The infrared oven of claim 1, wherein the infrared wavelength is about 1.63 microns for the at least one first infrared heater and the infrared wavelength is about 2.11 microns for the at least one second infrared heater.

24. (Original) The infrared oven of claim 1, wherein the infrared wavelength comprises a plurality of infrared wavelengths.

25. (Previously Presented) The infrared oven of claim 1, further comprising a gold coating over a portion of the quartz glass tube, wherein the gold coated portion is on the distal side of the quartz glass tube from the food.

26. (Original) The infrared oven of claim 1, further comprising a user interface for controlling cooking of the food.

27-28 (Canceled)

29. (Original) The infrared oven of claim 1, further comprising a digital processor for controlling the at least one first infrared heater and the at least one second infrared heat.

30. (Original) The infrared oven of claim 29, wherein the digital processor independently controls the at least one first infrared heater and the at least one second infrared heat.

31. (Canceled)

32. (Original) The infrared oven of claim 29, further comprising a user interface coupled to the digital processor.

33. (Original) The infrared oven of claim 32, wherein the user interface is used to input food choices for cooking the food from cooking routines stored in the digital processor.

34. (Original) The infrared oven of claim 33, wherein the cooking routines are selected from the group consisting of heating, cooking, browning, toasting, baking, broiling and defrosting.

35. (Original) The infrared oven of claim 33, wherein the food is selected from the group consisting of steak, hamburger, pizza, pasta, dinner rolls, bread, toast, cookies, pies, turkey, chicken, pot roast, pork, tofu, meatloaf, vegetables, and pastries.

36. (Original) The infrared oven of claim 1, wherein the position on the one side is above the food and the position on the another side is below the food.

37-60 (Canceled).

61. (Original) The infrared oven of claim 1, wherein the at least one first and the at least one second infrared heaters emit radiant heat at different infrared wavelengths.

62. (Original) The infrared oven of claim 1, wherein the at least one first and the at least one second infrared heaters emit radiant heat at a plurality of different infrared wavelengths.

63. (Canceled)

64. (Original) The infrared oven of claim 1, further comprising a coated portion of at least one inner surface of the oven chamber for reflecting a desired infrared wavelength.

65. (Canceled)

66. (Original) The infrared oven of claim 1, further comprising a coated portion of at least one inner surface of the oven chamber for retaining heat from the at least one first infrared heater and thereby re-radiating the retained heat.

67. (Original) The infrared oven of claim 1, further comprising a coated portion of at least one inner surface of the oven chamber for retaining heat from the at least one second infrared heater and thereby re-radiating the retained heat.

68. (Original) The infrared oven of claim 1, further comprising at least a portion of at least one inner surface of the oven chamber is coated with ceramic.

69. (Original) The infrared oven of claim 1, further comprising at least a portion of at least one inner surface of the oven chamber is coated with porcelain.

70. (Original) The infrared oven of claim 1, wherein the infrared wavelength is about 1.65 microns for the at least one first infrared heater and the infrared wavelength is about 2.05 microns for the at least one second infrared heater.

71. (Original) An infrared oven, comprising:

an oven housing;

an oven chamber adapted for receiving a food, the oven chamber located within the oven housing;

at least one first infrared heater comprising an electrically conductive filament inside of a quartz glass tube having extruded grooves therein, the at least one first infrared

heater being located inside of the oven chamber and positioned to be on one side of the food; and

at least one second infrared heater comprising an electrically conductive filament inside of a quartz glass tube having extruded grooves therein, the at least one second infrared heater being located inside of the oven chamber and positioned to be on another side of the food;

wherein the at least one first and the at least one second infrared heaters emit radiant heat at infrared wavelengths from about 1 to 3 microns for cooking the food.

72. (Original) The infrared oven of claim 71, further comprising:

a first radiant heat reflector located between an inside wall of the oven chamber and the at least one first infrared heater; and

a second radiant heat reflector located between another inside wall of the oven chamber and the at least one second infrared heater;

wherein the first and the second radiant heat reflectors reflect radiant heat from the at least one first infrared heater and the at least one second infrared heater, respectively, to the food.

73. (Original) The infrared oven of claim 71, wherein the infrared wavelength is from about 1.5 to about 2.5 microns.

74. (Original) The infrared oven of claim 71, wherein the infrared wavelength is about 1.63 microns for the at least one first infrared heater and the infrared wavelength is about 2.11 microns for the at least one second infrared heater.

75. (Original) The infrared oven of claim 71, wherein the infrared wavelength is about 1.65 microns for the at least one first infrared heater and the infrared wavelength is about 2.05 microns for the at least one second infrared heater.

76. (Original) The infrared oven of claim 71, wherein the infrared wavelength comprises a plurality of infrared wavelengths.

77. (Original) The infrared oven of claim 71, further comprising a gold coating over a portion of the quartz glass tube, wherein the gold coated portion is on the distal side of the quartz glass tube from the food.

78. (Original) The infrared oven of claim 71, further comprising a user interface for determining cooking parameters for the food.

79. (Original) The infrared oven of claim 71, wherein the at least one first and the at least one second infrared heaters emit radiant heat at different infrared wavelengths.

80. (Original) The infrared oven of claim 71, wherein the at least one first and the at least one second infrared heaters emit radiant heat at a plurality of different infrared wavelengths.

81. (Original) The infrared oven of claim 71, further comprising a coated portion of at least one inner surface of the oven chamber for reflecting a desired infrared wavelength.

82-133 (**Canceled**).